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- Applicant: Merino, Antonio Contrede Bosco, 430 I-91025 Marsale TP (IT)
- (inventor: Marino, Aptonio Contrada Bosco, 436 I-91025 Marasia TP (T)
- (ii) Representative: Aimi, Luciano et al c/o Sociada Italiana Stevetti S.p.A. Via Carducci 8 1-20123 Milano (IT)

(a) Improved to athbrush.

(iii) A noothtrash wheesen the browning bristless (3) are Banked, along the pair of elongated sides of bristle-carrying head (2) by small resilient ration-like ophilores (4) preferably provided as an integral body with a resilient lining (5) coating the three free sides of the bristle-carries head.

While the center briefles are provided for the routine tooth cleaning, the curse amait resident rubber-like cylinders sertorm as messaging aution on the gume they come into angagement with.



This invention relates to an improved toothbrush, and in particular to a toothbrush adapted as well to perform a massaging action for the gums.

As it is known, the function of the so called boothinshes comprises not only a simple obsession of the testh, but also providing an adequate massaging action to the adjacent gure area, in order to improve the capillary blood distribution, thereby uternothening the structure thereof.

Theratoro, countiese attempts have been made in order to reconcile the two requirements above, by varying sitter the shape, the size, the bristle angle relative to the support and/or handle, or by using differential hardness bristles, for instance by providing inner etilf bristies surrounded by more flexible outer brisiles. However, in any case, the problem of gum massissi has never been satisfactorily solved in that, if the presies provided to come into contact mainly with the game are too stilf, they can cause bruises on said gures, and therefore they can induce bleeding or in the extreme, they can make the pures to move back as a consequence of the traumatic action, on the other hand, if more flexible bristles are provided for the gum massage, said bristles fall very quickly to perform their action in that, under the effect of the pressure manually applied to the handle, they tend to bend, whereby they become unable to perform their brushing action any longer.

Taking into account the above drawbacks of the commercially enablish contributes, there has been contributed and provided the toothbrush according to this invention. Said toothbrush includes a brushing hand wherein the outer bristee are replaced by small castlent cylinders having round ends and, in addicastlent cylinders having round ends and, in addition, the difft body of said brushing head may be provided, at the outer region thereof, with a resident inting layer salepted to demone impacts of the loothbrush both against the feeth and against the quins.

This invention is described more particularly in the following, for sake of clarity, referring to the atlached gravings, wherein:

wings, wherein: Figure 1 shows a perepective view of the

toothbrush of this invention;
Figure 2 shows an elevational side view of the

toothbrush of Figure 1, and Figure 3 shows a top plan view of the

conhibration of Figure 1.
As it is shown in the Figures, the lootshbrush according to this invention in anatomical handler 1 connected to trushing pead 2 provided with owner brushing bed 3 financial on the outer side, along the pair of alongsited sides of brushing head 3, by carell realment originators 4 may be incorporated outer amail resilient opiniones 4 may be incorporated at the bottom and thereof within the rigid body of brushing nead 2 or class, as it is shown in the discharging nead 2 or class, as it is shown in the discharging nead 2 or class, as it is shown in the discharging nead 2 or class, as it is shown in the brushing head 2 on this theo fine along be integral with a reciliary them.

The above arrangement makes it possible to

provide an affective toothbrusking action by meanof bristies 3, and a pleasant gum maxeeging action provided by amail resident cylinders 4, white the outer resilient linking 5 prevents rigid body 2 from porting directly into engagement with the teeth or with the guns, whereby traumatic impacts are spared to both.

Usage of the inventive footbinush enables one to perform both the routine both cleaning and associated plaque removal, and an effective pleasant mansaging function on the game, owing to the resiliant between or the small peripheral cylinders comprised of any suitable rubber material, like for instance restural rubber or stiffolial electromers.

In order to ensure that a gum massaging action is per formed by small perighenal realisant cysicriers 4, their count dends project slightly active the level of the center brisbles, so that while the toothbrush is being used on the dental arch, the small realised cylinders are made to bend outwards whereby they reach the crooking little of the ouns involved.

White this invention has been described based on a preferred embodiment thereof, variations and/or modifications may be made by those skilled in this art, without exceeding the protective scope of the invention.

Claims

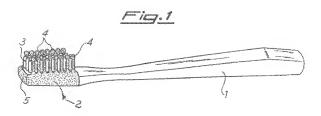
 A toolshbrush characterized in that bristles (3) provided for cleaning the teath are flatified, along the pair of elongered sides of bristle-certying head (2), by two arrays of small resilient cylinders (4), provided for masseging the gums.

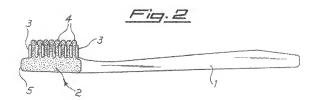
2. The tenthbrush of Claim I further characterized in that brustle-carrying head (2) is provided, on the three tree sides thereof, with a resilient material lining (5) made integral with said small resilient cylinders (4).

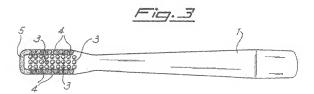
3. The toothorush of Cleim 1 or 2, characterized in that said small side resilient cylinders (4) are provided with rounded builging heads at the free ends thereof, protruding above the sevel of the center brushing tristles (5).

 The toothbrosh substantially as described and shown in the attached drawings.

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EUROPEAN SEARCH REPORT

EP 89 83 0402

	DOCUMENTS CONSIDER	ED TO BE RELEVA!	4.I.		
atrgery	Offession of document with indication of retevant pussages	n, where appropriate,	Relevant to cinim	CLASSIFICATION OF THE APPLICATION (Inc. CL5.)	
×	FR-A-2440171 (BRIBSKY) * page 1, Hins 20 - page 5,	Time S; figures 1-6	1, 3	A4689/05 A46817/08	
			8		
	FR-A-661892 (LECHAT) * claims 1-4; figures 1-6 *		Z		
	EE-8-0715093 (LINK) * claim 1; figures 1-6 *		3, 2		
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CATEGORY OF CHED DECEMENTS X: particularly submont if taking almost Y: gat-furtherly relevant if taking almost Y: gat-furtherly relevant if combined with another X: cecleoholgish declaration O: now-written discharation P: inversediate alwammen D: now-written alwammen		T i thong or principle underlying the invention R: entire patent document, but published on, or after the fifthing document. but published on, or after the fifthing document. D: demonsted cittle to the application. L: demonsted cittle to the application A: member of the same patient famility, corresponding deviations.			